Spr

IUBMB Enzyme Nomenclature

EC 3.5.4.6

Common name: AMP deaminase

Reaction: AMP + $H_2O = IMP + NH_3$

For diagram click here.

Other name(s): adenylic acid deaminase; AMP aminase; adenylic deaminase; adenylate deaminase; 5-AMP deaminase; adenosine 5-monophosphate deaminase; 5-adenylate deaminase; adenylate aminohydrolase; adenylate deaminase; adenylate deaminase; adenylate deaminase; adenylate deaminase; adenylate deaminase

Systematic name: AMP aminohydrolase

Comments: cf. EC 3.5.4.17 adenosine-phosphate deaminase.

Links to other databases: BRENDA, EXPASY, GTD, KEGG, ERGO, CAS registry number: 9025-10-9

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[EC 3.5.4.6 created 1961]

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<u> </u>		77.		In . n : . 1 - 11 - 11 - 11
Tetragon	<u>Tetragonal -</u> <u>Disphenoidal</u>	(4)	l4 and P4	P = Primitive Lattice. I = Body Centered Lattice.
1 2 1	Tetragonal - Pyramidal	(4)	14, 14 ₁ , P4, P4 ₁ , P4 ₂ , and P4 ₃	_ 4 = Rotoinversion Axis. 4,2 = Symmetry Axis (360/n).
	2 <u>Tetragonal -</u> <u>Dipyramidal</u>	(4/m)	l4/m, l4 ₁ /a, P4/m, P4/n, P4 ₂ /m, and P4 ₂ /n	4 _{1,2,3} = Screw Axis.
	<u>Tetragonal -</u> <u>Scalenohedral</u>	(4 2m)	142d, 142m, 14c2, 14m2, P421c, P42 ₁ m, P42c, P42m, P4b2, P4c2, P4m2, and P4n2	a,b,c = Perpendicular Glide Planes. m,n = Oblique Glide Planes.
	Tetragonal - Ditetragonal Pyramidal	(4mm)	I4/mcm, I4/mmm, I4 ₁ /acd, I4 ₁ /amd, P4/mbm, P4/mcc, P4/mmm, P4/mnc, P4/nbm, P4/ncc, P4/nmm, P4/nnc, P4 ₂ /mbc, P4 ₂ /mnm, P4 ₂ /nbc, P4 ₂ /ncm, P4 ₂ /nmc, and P4 ₂ /nnm	·
	<u>Tetragonal -</u> <u>Trapezohedral</u>	(4 2 2)	14 ₁ 22, 1422, P4 ₁ 2 ₁ 2, P4 ₁ 22, P42 ₁ 2, P422, P4 ₂ 2 ₁ 2, P4 ₂ 22, P4 ₃ 2 ₁ 2, and P4 ₃ 22	
	<u>Tetragonal -</u> <u>Ditetragonal</u> <u>Dipyramidal</u>	(4/m 2/m 2/m)	14 ₁ cd, 14 ₁ md, 14cm, 14mm, P4 ₂ bc, P4 ₂ cm, P4 ₂ mc, P4 ₂ nm, P4bm, P4cc, P4mm, and P4nc	





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(11) EP 1 215 587 A3

(12)

EUROPEAN PATENT APPLICATION

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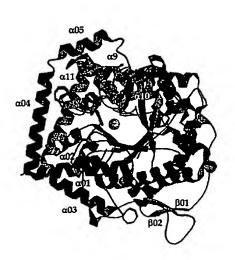
 MC NL PT SE TR

 Designated Extension States:

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- (30) Priority: 13.12.2000 GB 0030424
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- (54) Adenosine monophosphate deaminase crystal structure
- (57) A 2.2 Å crystal structure of rabbit AMP deaminase, an integral enzyme of purine nucleotide interconversion, has been determined, in an unligated state and with an inhibitor bound. The present invention further discloses the use of x-ray crystallographic data for identification and construction of possible therapeutic compounds in the treatment of various disease conditions. The sequence of rabbit AMP deaminase is also disclosed.

Figure 1





PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent ConventionEP 01 30 9996 shall be considered, for the purposes of subsequent proceedings, as the European search report

Category D, X	Citation of document with it of relevant pass	ndication, where appropriate,			
D,X		ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
	SMILEY K.L., BERRY "An improved purif crystallization, an rabbit muscle 5'-ad THE JOURNAL OF BIOL vol. 242, no. 10, 25 May 1967 (1967-0 XP001064797 * the whole documen	22	G06F17/00 C12N9/78		
X	DATABASE GENBANK 'NCBI; 31 October 20 "Homo sapiens aden deaminase 1 (AMPD1) Database accession XP002198763 * abstract *	25,36			
D,A	WO 94 18200 A (GENS 18 August 1994 (199 * the whole documen	25-29	TECHNICAL FIELDS		
	o che miore documen			SEARCHED (Int.Cl.7)	

	MPLETE SEARCH	application, or one or more of its claims, does	V/do		
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Claims s	earched incompletely :				
Claims no	o: searched				
Reason f	or the limitation of the search:				
see	sheet C				
	Place of search	Date of completion of the search		Examiner	
	MUNICH	24 May 2002	Sch	wachtgen, J-L	
	CATEGORY OF CITED DOCUMENTS tloutarly relevant if taken alone tioutarly relevant if combined with anoth ument of the same category	T: theory or principle E: ezriler patent dos after the filing dat	e underlying the loument, but publice in the application	Invention	



INCOMPLETE SEARCH SHEET C

Application Number EP 01 30 9996

Claim(s) not searched: 30-33
Reason for the limitation of the search:
Claims 30-33 are directed to compounds obtained by a rational drug design screening method. However, no such compounds are defined in the application. No meaningful search can be carried out for such reach-through claims because the their scope is purely speculative and open-ended, contrary to the requirements of Articles 84 and 83 EPC.
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 30 9996

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on

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24-05-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82